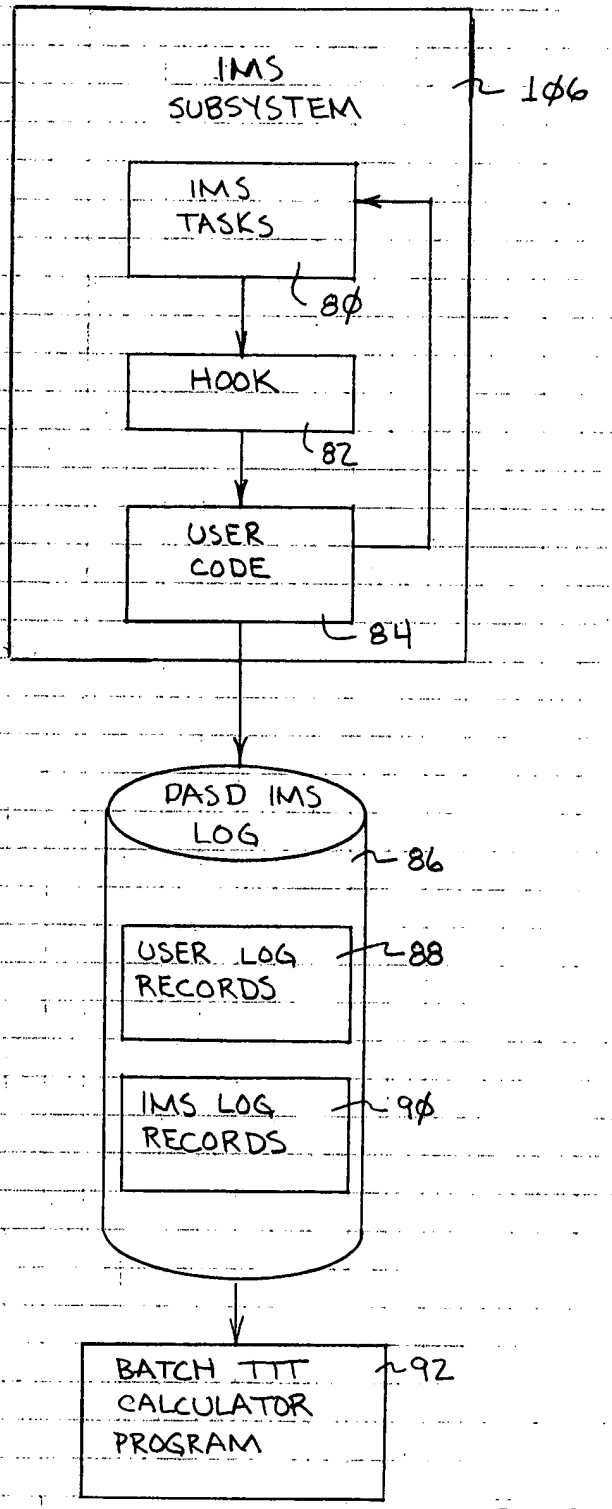


PRIOR ART

FIG. 1

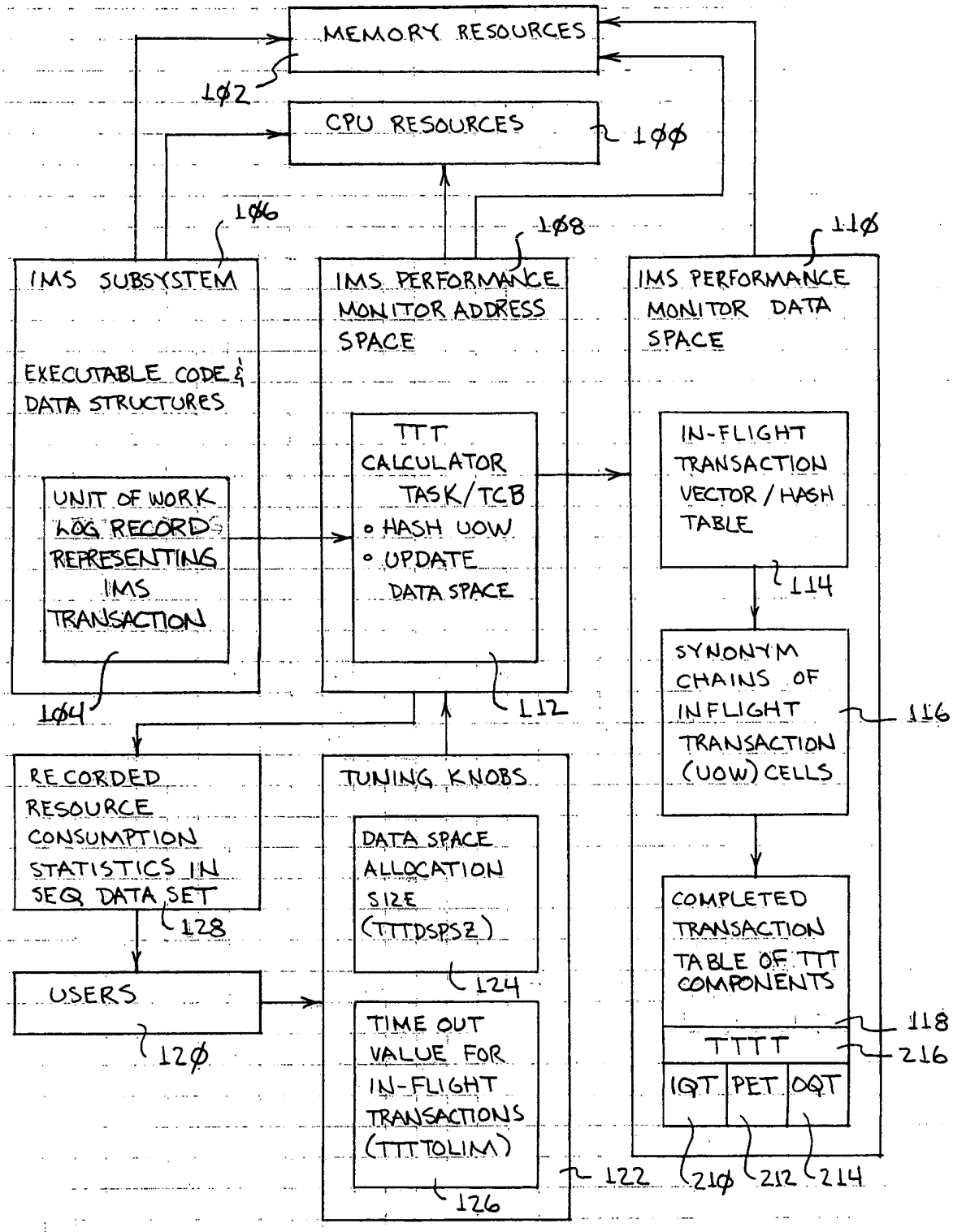

MEMORY RESOURCES
102
CPU RESOURCES
100
106
108
110
IMS SUBSYSTEM
EXECUTABLE CODE & DATA STRUCTURES
UNIT OF WORK LOG RECORD REPRESENTING IMS TRANSACTION
104
IMS PERFORMANCE MONITOR ADDRESS SPACE
TTT CALCULATOR TASK/TCB
• HASH UOW
• UPDATE DATA SPACE
112
IMS PERFORMANCE MONITOR DATA SPACE
IN-FLIGHT TRANSACTION VECTOR / HASH TABLE
114
SYNONYM CHAINS OF INFLIGHT TRANSACTION (UOW) CELLS
116
COMPLETED TRANSACTION TABLE OF TTT COMPONENTS
118
TTTT
216
IQT
PET
OQT
210
212
214
RECORDED RESOURCE CONSUMPTION STATISTICS IN SEQ DATA SET
128
USERS
120
TUNING KNOBS
DATA SPACE ALLOCATION SIZE (TTTDSPSZ)
124
TIME OUT VALUE FOR IN-FLIGHT TRANSACTIONS (TTTTOLIM)
126
122

FIG. 2

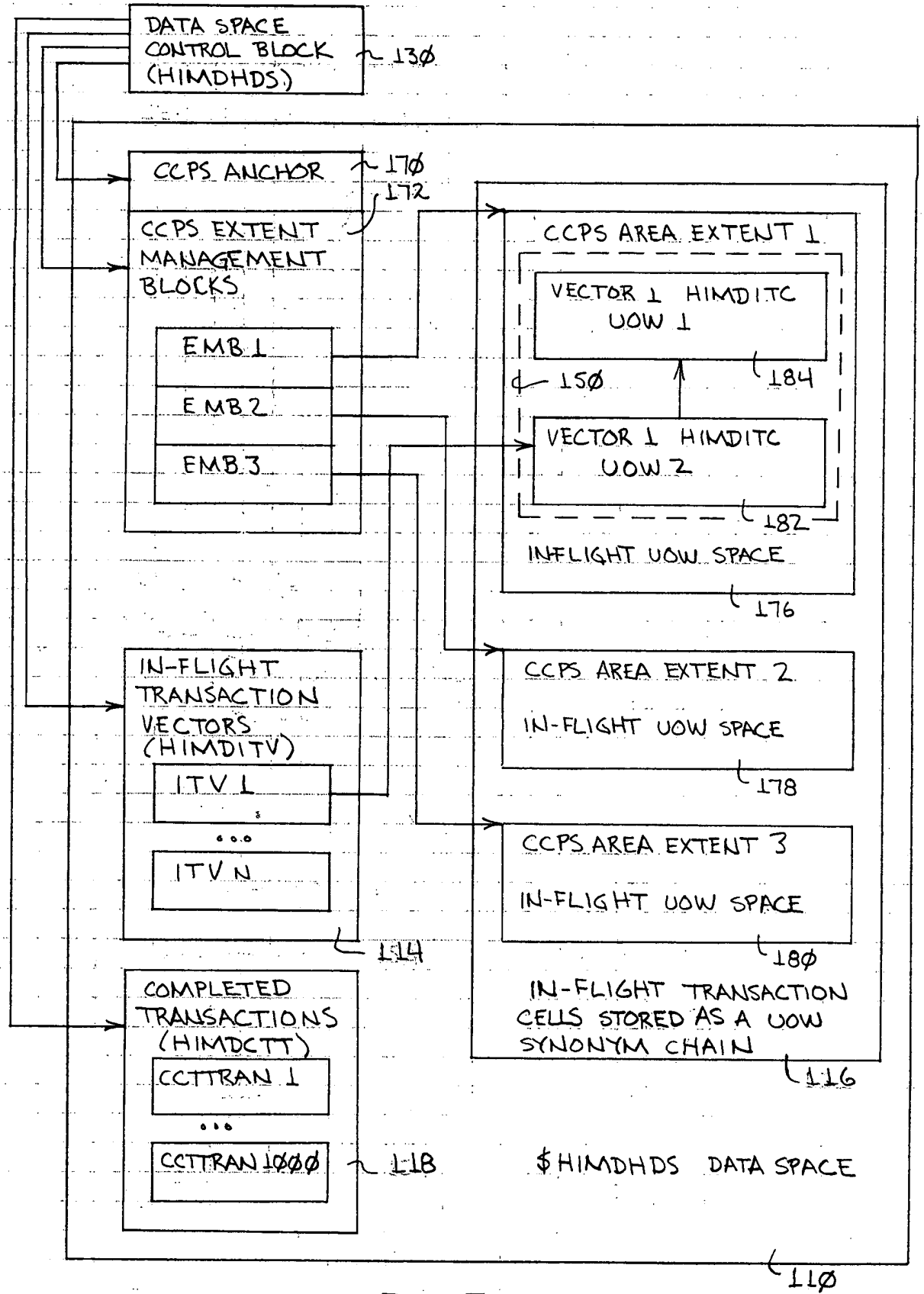

DATA SPACE CONTROL BLOCK (HIMDHDS)
130
CCPS ANCHOR
170
172
CCPS EXTENT MANAGEMENT BLOCKS
EMB 1
EMB 2
EMB 3
CCPS AREA EXTENT 1
VECTOR 1 HIMDITC UOW 1
184
150
VECTOR 1 HIMDITC UOW 2
182
INFLIGHT UOW SPACE
176
IN-FLIGHT TRANSACTION VECTORS (HIMDITV)
ITV 1
ITV N
114
CCPS AREA EXTENT 2
IN-FLIGHT UOW SPACE
178
CCPS AREA EXTENT 3
IN-FLIGHT UOW SPACE
180
IN-FLIGHT TRANSACTION CELLS STORED AS A UOW SYNONYM CHAIN
116
COMPLETED TRANSACTIONS (HIMDCTT)
CCTTRAN 1
CCTTRAN 1000
118
$HIMDHDS DATA SPACE
110

FIG. 3

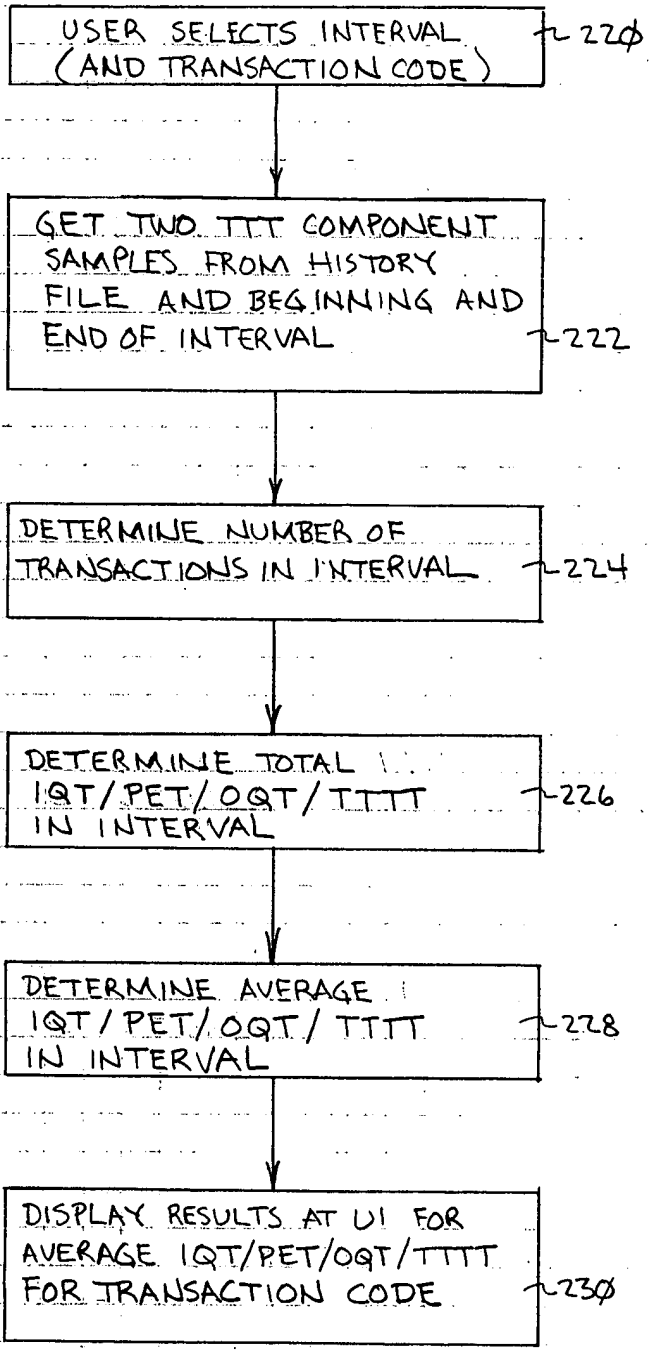

USER SELECTS INTERVAL (AND TRANSACTION CODE)
220
GET TWO TTT COMPONENT SAMPLES FROM HISTORY FILE AND BEGINNING AND END OF INTERVAL
222
DETERMINE NUMBER OF TRANSACTIONS IN INTERVAL
224
DETERMINE TOTAL IQT/PET/OQT/TTTT IN INTERVAL
226
DETERMINE AVERAGE IQT/PET/OQT/TTTT IN INTERVAL
228
DISPLAY RESULTS AT UI FOR AVERAGE IQT/PET/OQT/TTTT FOR TRANSACTION CODE
230

FIG. 4

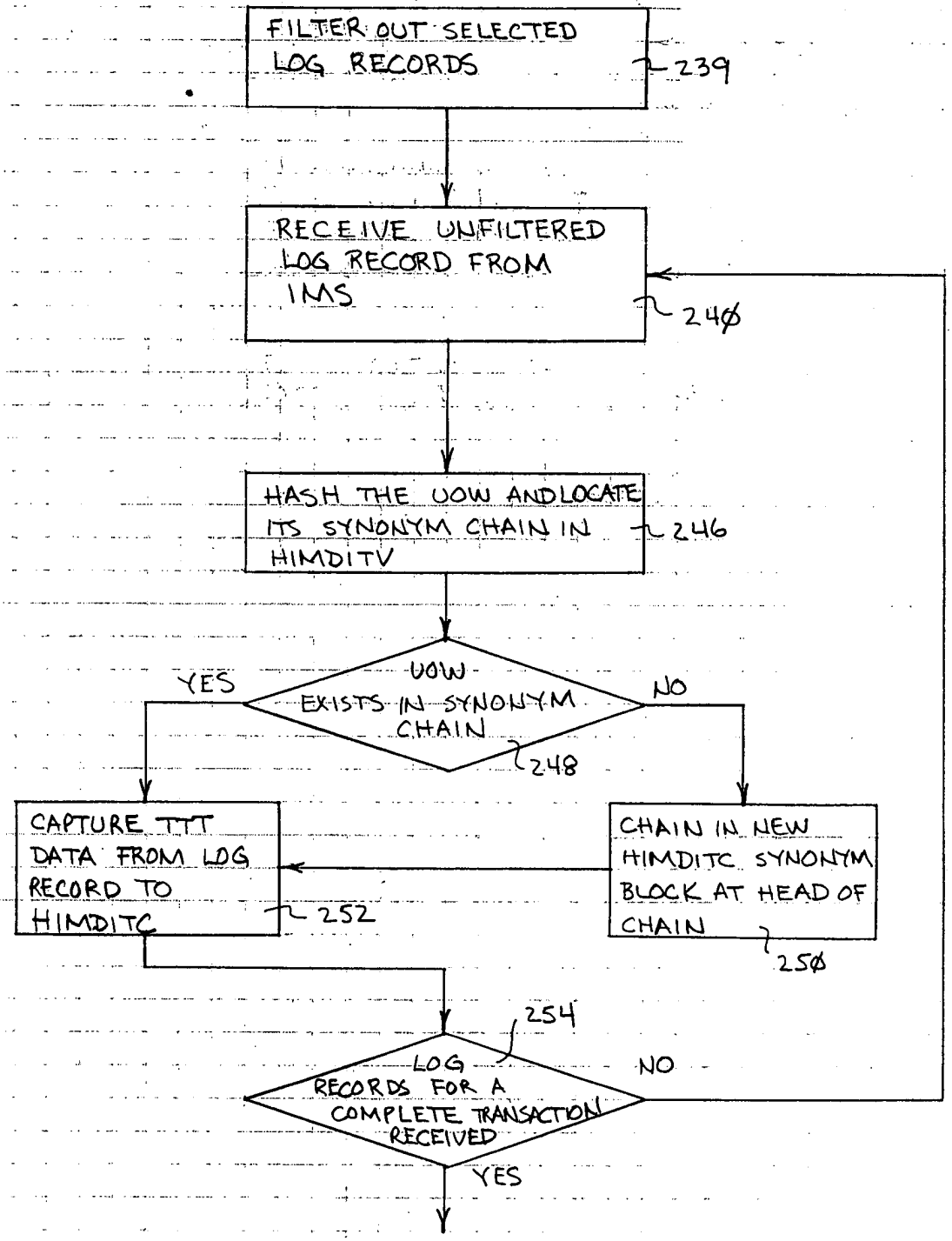

FILTER OUT SELECTED LOG RECORDS
239
RECEIVE UNFILTERED LOG RECORD FROM IMS
240
HASH THE UOW AND LOCATE ITS SYNONYM CHAIN IN HIMDITV
246
UOW EXISTS IN SYNONYM CHAIN
248
YES
NO
CAPTURE TTT DATA FROM LOG RECORD TO HIMDITC
252
CHAIN IN NEW HIMDITC SYNONYM BLOCK AT HEAD OF CHAIN
250
254
LOG RECORDS FOR A COMPLETE TRANSACTION RECEIVED
NO
YES

FIG. 5A

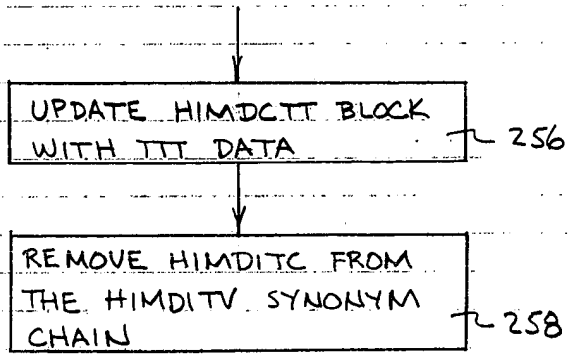
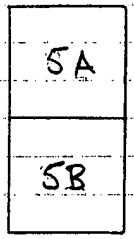

UPDATE HIMDCTT BLOCK WITH TTT DATA
256
REMOVE HIMDITC FROM THE HIMDITV SYNONYM CHAIN
258

FIG. 5B


5A
5B

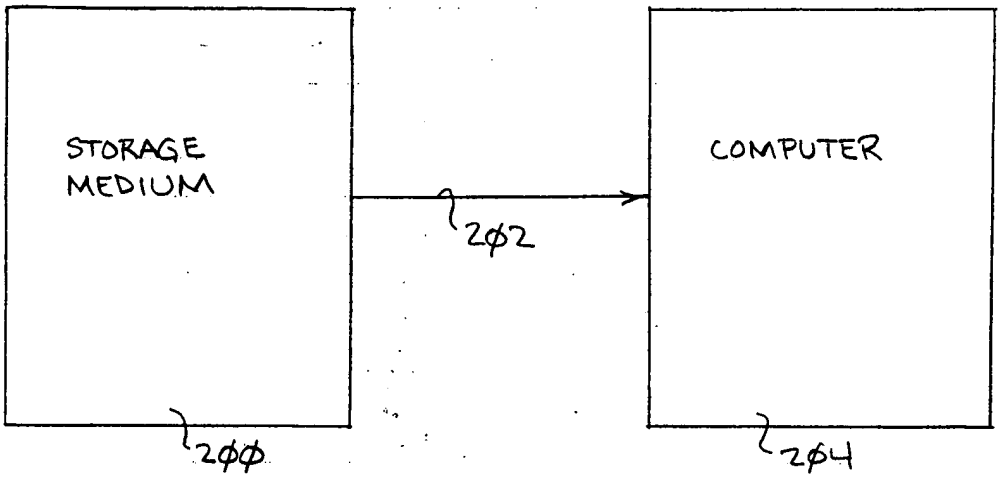


FIG. 6